

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P721884

Luminaire Tested: **CST-CA8-400-760-U-T5**

Issue Date: 10/25/2023

Test Information

Test Method: LM-79-08
Report Number: P721884
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA8-400-760-U-T5
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62456 lumens
Efficiency: N/A
Efficacy: 155.8 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

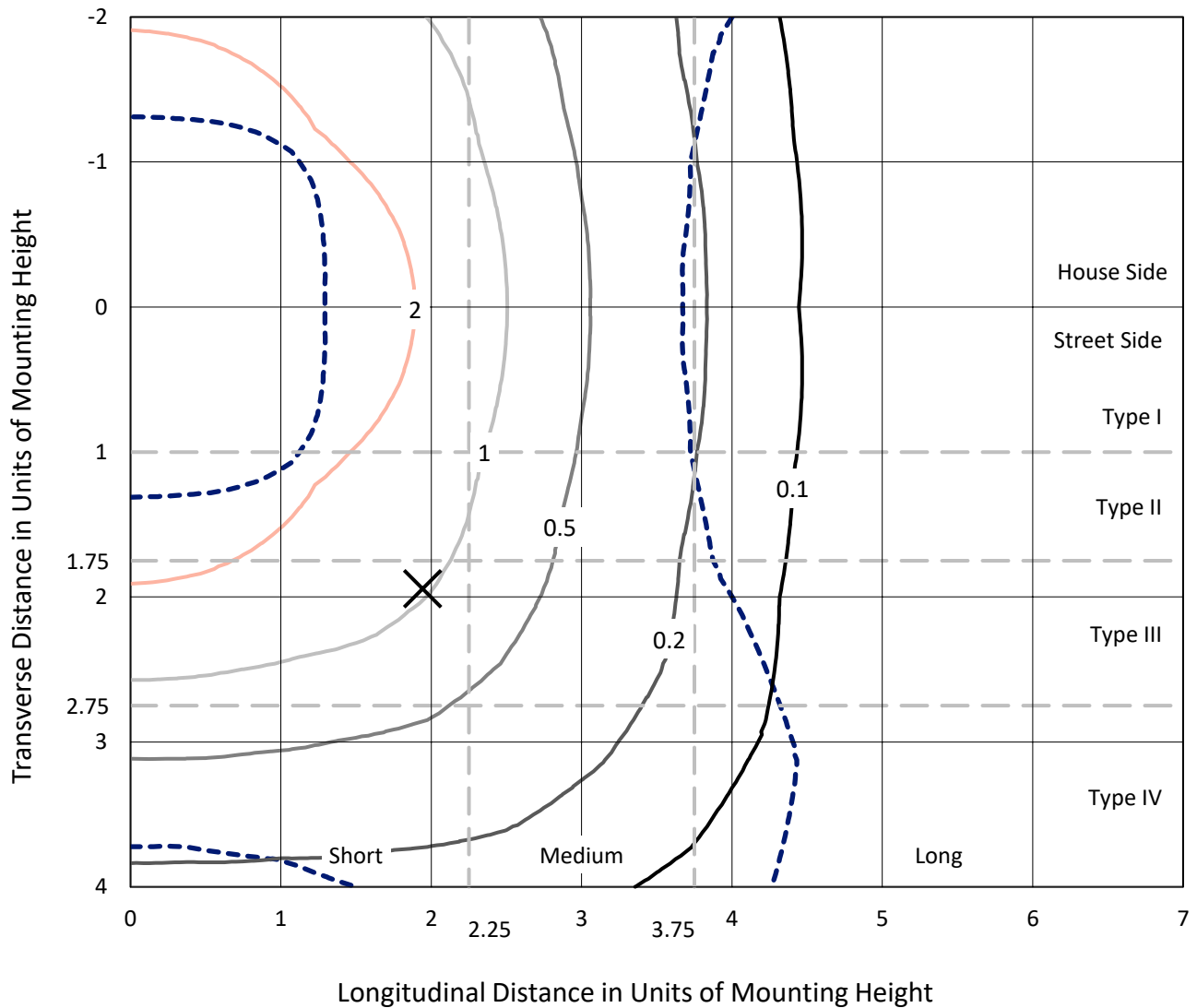
Input Watts (W): 400.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

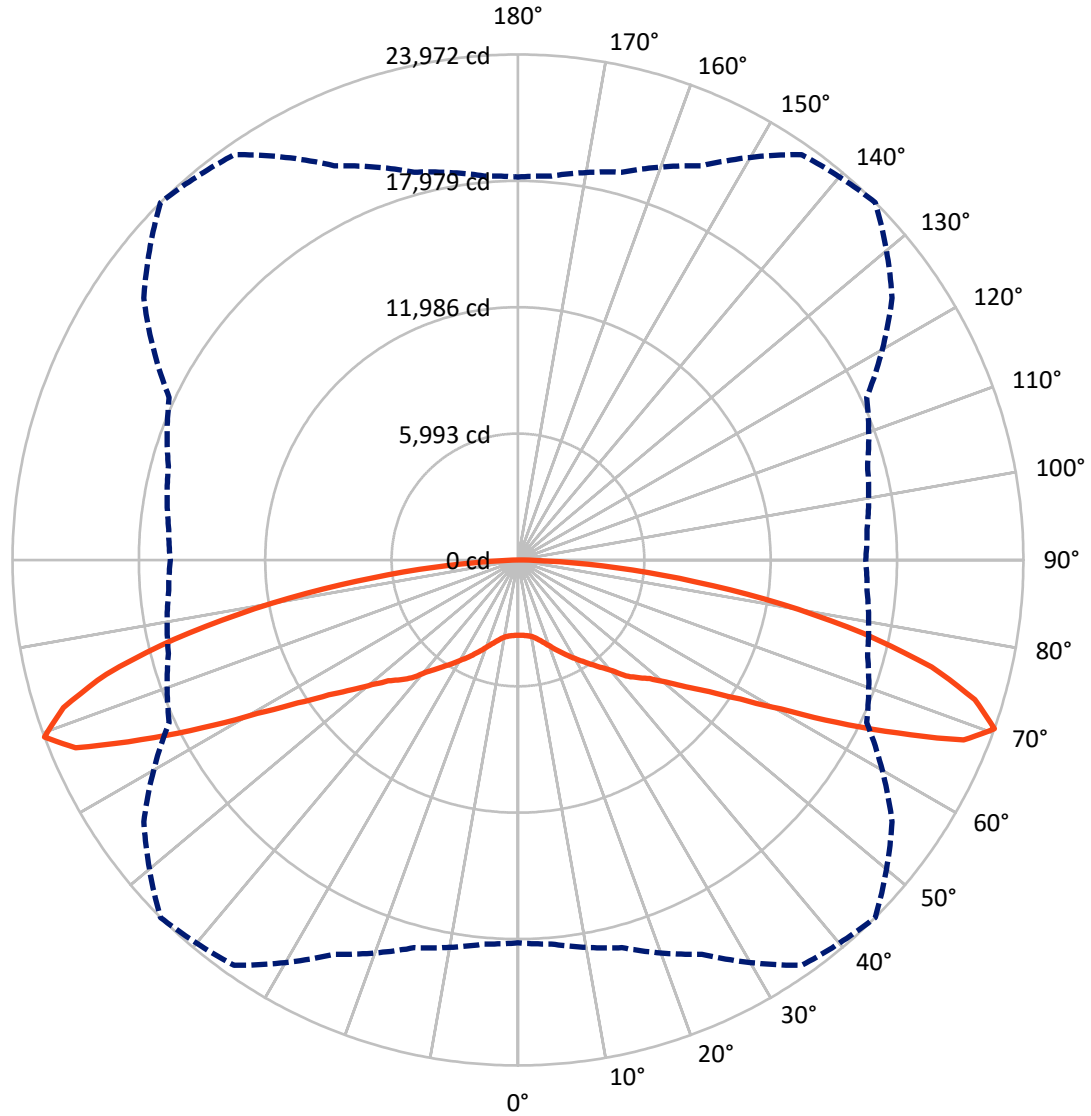
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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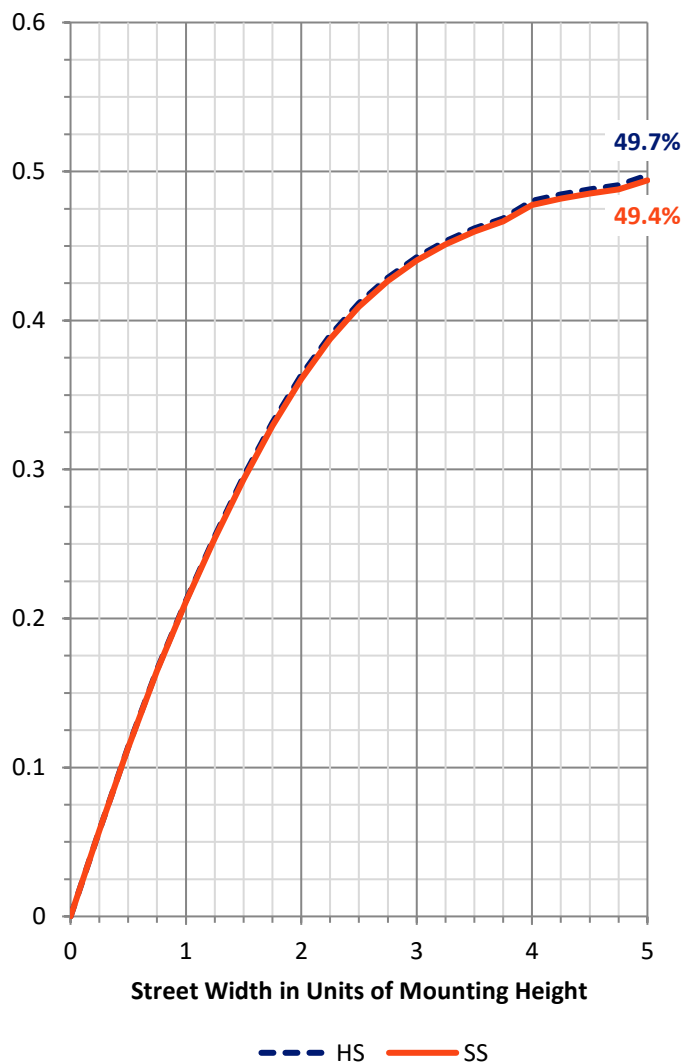
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	31228.0	0.0	31228.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	31228.0	0.0	31228.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	62456.0	0.0	62456.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.0	0.6
10°-20°	1130.0	1.8
20°-30°	2236.9	3.6
30°-40°	3869.7	6.2
40°-50°	6438.6	10.3
50°-60°	11229.9	18.0
60°-70°	18590.6	29.8
70°-80°	15580.4	24.9
80°-90°	3033.0	4.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	62456.0	100.0
0°-180°	62456.0	100.0

Coefficient of Utilization



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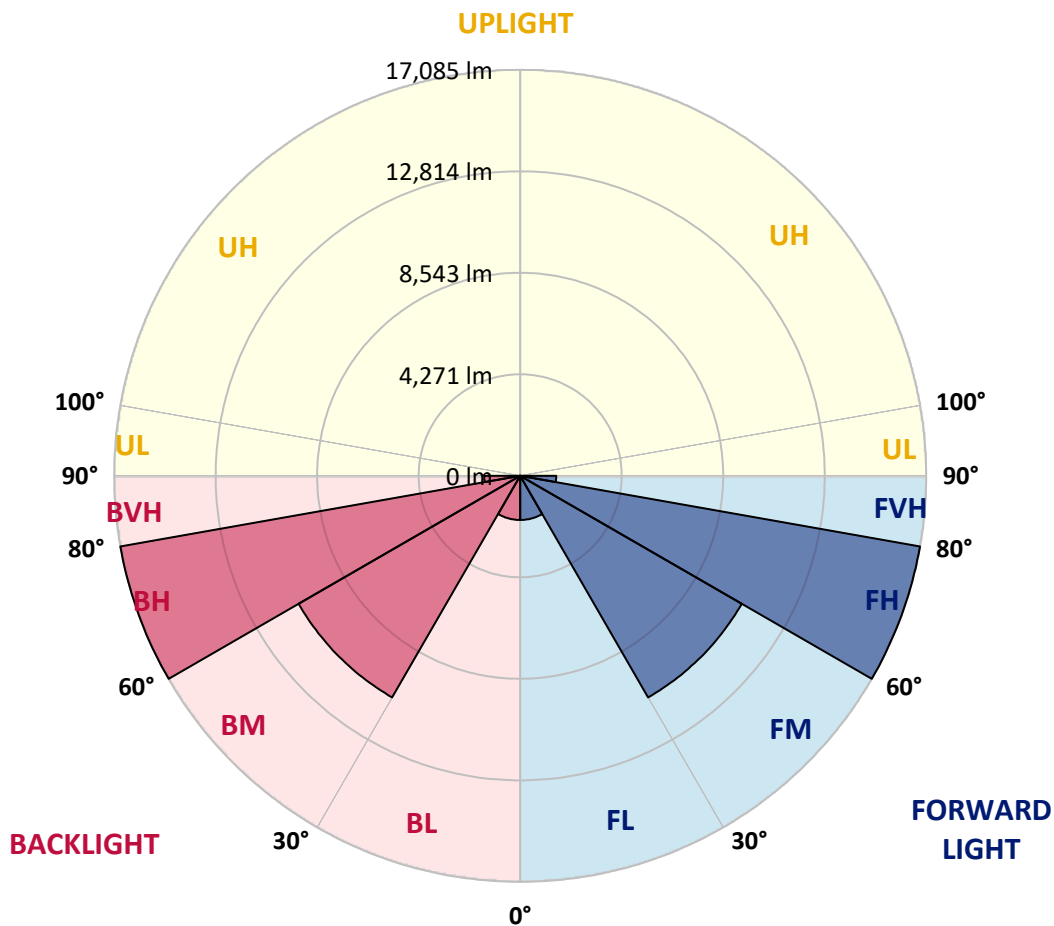
CATALOG NUMBER: CST-CA8-400-760-U-T5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1856.9	3.0			
FM (30°-60°)	10769.1	17.2			
FH (60°-80°)	17085.5	27.4			G5
FVH (80°-90°)	1516.5	2.4			G5
BL (0°-30°)	1856.9	3.0	B3/2500		
BM (30°-60°)	10769.1	17.2	B5		
BH (60°-80°)	17085.5	27.4	B5		G5
BVH (80°-90°)	1516.5	2.4			G5
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3569.6	3569.6	3569.6	3569.6	3569.6	3569.6	3569.6	3569.6	3569.6	3569.6	3569.6
2.5°	3591.8	3580.7	3577.0	3573.3	3575.7	3574.5	3580.7	3583.2	3585.6	3596.8	3590.6
5°	3614.1	3605.4	3604.2	3599.2	3598.0	3598.0	3606.7	3607.9	3609.1	3616.6	3609.1
7.5°	3654.9	3646.2	3643.8	3641.3	3640.1	3635.1	3641.3	3638.8	3641.3	3645.0	3636.3
10°	3719.2	3709.3	3706.8	3700.7	3704.4	3697.0	3701.9	3695.7	3684.6	3687.1	3674.7
12.5°	3807.0	3798.4	3802.1	3800.9	3815.7	3812.0	3802.1	3789.7	3771.2	3758.8	3745.2
15°	3936.9	3923.3	3933.2	3943.1	3957.9	3964.1	3956.7	3923.3	3896.1	3876.3	3865.2
17.5°	4095.2	4073.0	4092.7	4112.5	4144.7	4150.9	4123.7	4082.9	4053.2	4044.5	4026.0
20°	4279.5	4275.8	4277.0	4309.2	4358.7	4367.3	4331.5	4283.2	4253.5	4254.8	4233.7
22.5°	4502.1	4482.4	4488.5	4520.7	4591.2	4614.7	4555.3	4502.1	4483.6	4488.5	4486.1
25°	4756.9	4738.4	4729.7	4744.6	4836.1	4876.9	4820.0	4758.2	4749.5	4760.6	4743.3
27.5°	5036.5	5019.2	5009.3	5016.7	5088.4	5165.1	5102.0	5050.1	5048.8	5064.9	5055.0
30°	5354.3	5328.4	5317.2	5325.9	5375.4	5449.6	5398.9	5367.9	5393.9	5405.0	5401.3
32.5°	5675.9	5663.6	5659.8	5657.4	5718.0	5760.0	5735.3	5741.5	5762.5	5813.2	5797.1
35°	6042.0	6006.2	6016.1	6023.5	6102.6	6106.3	6108.8	6120.0	6175.6	6247.3	6205.3
37.5°	6423.0	6414.3	6420.5	6399.5	6457.6	6481.1	6515.7	6552.8	6640.7	6723.5	6706.2
40°	6894.2	6878.1	6884.3	6859.6	6888.0	6906.6	6977.1	7057.5	7170.0	7259.1	7218.3
42.5°	7518.8	7478.0	7478.0	7485.4	7544.8	7525.0	7675.9	7698.2	7837.9	7913.4	7889.9
45°	8253.5	8238.7	8160.8	8029.7	7955.4	7954.2	8075.4	8256.0	8487.3	8644.4	8643.1
47.5°	9187.3	9141.6	8954.8	8639.4	8451.4	8405.7	8533.1	8884.3	9309.8	9554.7	9551.0
50°	10411.8	10353.7	10070.5	9580.7	9214.6	9102.0	9306.1	9761.2	10333.9	10660.4	10687.7
52.5°	11782.3	11787.2	11466.9	10726.0	10184.3	9981.4	10197.9	10848.4	11562.1	12009.8	12063.0
55°	13374.1	13335.8	13032.7	12192.9	11447.1	11011.7	11339.5	12201.6	13021.6	13363.0	13457.0
57.5°	15031.5	14881.8	14649.3	13863.9	12991.9	12435.3	12828.6	13672.2	14457.6	14893.0	14878.1
60°	16500.9	16401.9	16268.3	15642.5	14973.3	14337.6	14640.6	15354.3	16027.1	16290.6	16301.7
62.5°	18106.3	18023.4	17903.5	17560.8	17192.3	16956.0	16681.4	17011.7	17537.3	17825.5	17919.5
65°	19682.0	19652.4	19721.6	19669.7	19825.5	19790.9	19132.9	18925.1	18933.8	18852.1	18810.1
67.5°	19589.3	19578.2	19986.3	20800.2	22353.7	22794.0	21105.7	19225.6	18378.4	18163.2	18132.3
70°	18160.7	18280.7	19036.4	20629.5	23464.3	23971.5	21659.8	18247.3	17163.8	16624.5	16491.0
72.5°	15412.4	15647.4	16806.4	19152.7	22541.7	22657.9	20267.1	16775.4	15179.9	14536.7	14441.5
75°	11892.3	11922.0	13108.2	16090.2	20117.4	20263.4	18079.1	14070.4	12500.9	11700.6	11675.9
77.5°	7243.0	7664.8	9395.1	12064.3	15992.5	16751.9	15120.5	11207.1	9340.7	8632.0	8236.2
80°	3553.5	3746.4	4993.2	7627.7	11431.0	12703.7	11220.7	7751.4	5761.3	4862.1	4763.1
82.5°	1617.8	1720.5	2362.4	3987.6	6897.9	8474.9	6925.1	4439.1	3076.1	2405.7	2383.4
85°	628.3	624.6	956.1	1673.5	3302.4	4692.6	3506.5	2117.5	1407.5	1046.4	987.0
87.5°	183.1	195.4	280.8	549.2	978.4	1318.5	1081.0	732.2	432.9	278.3	256.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)